

September 16, 2004

APPLICANT: Indiana Michigan Power Corporation

FACILITY: Donald C. Cook Nuclear Plant, Units 1 and 2

SUBJECT: SUMMARY OF SITE AUDIT TO SUPPORT REVIEW OF LICENSE RENEWAL APPLICATION FOR DONALD C. COOK NUCLEAR PLANT, UNITS 1 AND 2

An environmental review team consisting of the U.S. Nuclear Regulatory Commission (NRC) staff and contractors from Argonne National Laboratory (ANL) and Pacific Northwest National Laboratory (PNNL) participated in a site audit at Donald C. Cook Nuclear Plant (CNP), Units 1 and 2 on March 9 through March 10, 2004, to support the review of the CNP license renewal application. The team consisted of one PNNL and eight ANL contractors and six NRC staff members. The primary goal of the site visit was to review documentation, gather information to ensure that environmental requirements of license renewal as codified in Title 10 of the *Code of Federal Regulations* Part 51 (10 CFR Part 51) are met, and to interface with officials in Federal, State, and local government permitting and resource agencies to obtain related information. Attachment 1 is the list of NRC, ANL, PNNL, and American Electric Power (AEP)¹ representatives that participated in the audit at the site. Attachment 2 is a table of documents provided to the staff by AEP to assist the staff in its review of the CNP Environmental Report. These documents have been made publicly available, and can be found in the Agencywide Documents Access and Management System (ADAMS) under the accession numbers listed in the table. ADAMS is accessible at <http://www.nrc.gov/reading-rm/adams.html>, which provides access through the NRC's Public Electronic Reading Room (PERR) link. Persons who do not have access to ADAMS, or who encounter problems in accessing the documents located in ADAMS, should contact the NRC's PDR Reference staff at 1-800-397-4209, or 301-415-4737, or by e-mail at pdr@nrc.gov.

The entire team participated in meetings and a general site tour with AEP staff on Tuesday, March 9, 2004. The site tour focused on areas relevant to the environmental review, including the meteorological tower, turbine building drain absorption pond, and storm water outfalls. During the rest of the site audit, review team members broke off into smaller groups with AEP representatives with corresponding environmental expertise. These groups participated in various activities, including tours of the radioactive waste processing areas, intake and discharge structures, and the transmission line corridors. AEP provided a brief presentation on their new and significant information identification process to members of the environmental review team. No significant new information was identified.

¹The applicant, Indiana Michigan Power Corporation (I&M), is a wholly-owned subsidiary of American Electric Power (AEP). Applicant staff participating in the audit included personnel from I&M and AEP, collectively referred to herein as AEP.

In addition, during the site audit, review team members met offsite with staff representing Federal, State and local government agencies, including the U.S. Fish and Wildlife Service and the Michigan Department of Natural Resources. Information gathered through these offsite meetings will assist the environmental review team in its evaluation. No major problem areas were identified during these discussions.

At the conclusion of the site visit, the NRC environmental project manager (EPM) and ANL project team leader participated in a summary exit meeting with AEP representatives. The staff indicated that AEP provided an informative and well-represented site visit for the environmental review team. The EPM indicated that the review team did not identify any significant issues during its site visit or the visits offsite with Federal, State, and local agencies. However, the EPM further indicated that the review was ongoing, and that any additional information necessary to support the review would be formally requested as a request for additional information.

AEP submitted additional information in letters dated June 4 and June 30, 2004. The June 4 letter (Accession No. ML041670492) provided information regarding environmental stewardship, Cook Energy Center attendance records, assessment of the transmission line corridor between Collingswood and Robison Park, Indiana, enhancements to the traveling screens system, and implementation of a fish deterrent system. The June 30 letter (Accession No. ML041900057) provided information regarding AEP's process for evaluating potential new and significant information and procedures for onsite and transmission line right of way vegetation management with the potential to affect threatened or endangered bird nesting sites.

/RA/

Robert G. Schaaf, Project Manager
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License Renewal and Environmental Impacts Program
Division of Regulatory Improvement Programs
Office of Nuclear Reactor Regulation

Docket Nos.: 50-315 and 50-316

Attachments: As stated

cc w/atts: See next page

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Adams Accession no.: **ML042600562**

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DISTRIBUTION: To Licensee: Indiana Michigan Power Corporation, Re: Donald C. Cook,
Dated: September 16, 2004
Adams Accession no.: **ML042600562**

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Steve Conner	TTNUS

References Collected at the CNP Site Audit
March 9 -10, 2004

	Reference Document	ADAMS Accession Number
1	American Electric Power (AEP). 2003. Letter from Mr. John Carlson, AEP, to Mr. James Dexter, Michigan Department of Natural Resources, regarding alewife impingement history and CNP corrective actions. September 23, 2003.	ML041380066
2	Berrien County Economic Development Department. 1999. Community Profile, Lake Charter Township, Berrien County, Michigan. Spring 1999.	ML041380072
3	Bronte, C. and P. Schuette. 2002. "Summary of Trout and Salmon Stocking in Lake Michigan 1976-2001." <i>Lake Michigan Committee Meeting, Duluth, Minnesota, March 21-22, 2002</i> . U.S. Fish and Wildlife Service (FWS), Fishery Resources Office, Green Bay, Wisconsin. March 2002.	ML041380067
4	Fleischer, G. W., C. P. Madenjian, T. J. DeSorcie, and J. D. Holuszko. 2000. "Status and Trends of Prey Fish Populations in Lake Michigan, 1999." <i>Great Lakes Fishery Commission, Lake Michigan Committee Meeting</i> . Great Lakes Science Center, U.S. Geological Survey (USGS). March 22, 2000.	ML041380079
5	Indiana Michigan Power Company (I&M). 2001. Integrated Resource Planning Report to the Indiana Utility Regulatory Commission. November 1, 2001.	ML041380112
6	Jude, D. J. 1995. "Impact on Aquatic Organisms of Increased Heat Input to the Thermal Discharge of the Donald C. Cook Nuclear Plant, Southeastern Lake Michigan." Center for Great Lakes and Aquatics Sciences, University of Michigan. December 1995.	ML041380083
7	Lake Charter Township. 2004. Lake Charter Township 2004 - 2008 Parks and Recreation Plan. January 2004.	ML041380081
8	Madenjian, C. P., T. J. DeSorcie, and J. D. Holuszko. 2004. "Status and Trends of Prey Fish Populations in Lake Michigan, 2003." <i>Great Lakes Fishery Commission, Lake Michigan Committee Meeting</i> . Great Lakes Science Center, U.S. Geological Survey (USGS). March 24, 2004.	ML041380073

References Collected at the CNP Site Audit
March 9 -10, 2004

	Reference Document	ADAMS Accession Number
9	Michigan Department of Environmental Quality (MDEQ). 2003. Letter from Mr. Chris Antieau, MDEQ, to Mr. John Carlson, AEP, regarding Federal consistency determination for the relicensing of CNP. October 17, 2003.	ML041380075
10	Michigan Department of History, Arts and Libraries (MDHAL). 2003. Letter from Mr. Brian Grennell, State Historic Preservation Officer (SHPO), to Mr. John Carlson, American Electric Power (AEP), regarding request for a review under Section 106 of the National Historic Preservation Act. April 2, 2003.	ML041380078
11	Noguchi, L. S., D. L. Bimber, H. T. Tin, P. J. Mansfield, and D. J. Jude. 1985. "Field Distribution and Entrainment of Fish Larvae and Eggs at the Donald C. Cook Nuclear Power Plant, Southeastern Lake Michigan, 1980-1982." <i>Special Report No. 116 of the Great Lakes Research Division</i> . Great Lakes and Marine Waters Center, The University of Michigan. 1985.	ML041380063
12	Tesar, F. J. and D. J. Jude. 1985. "Adult and Juvenile Fish Populations of Inshore Southeastern Lake Michigan Near the Cook Nuclear Power Plant During 1973-1982." <i>Special Report No. 106 of the Great Lakes Research Division</i> . Great Lakes and Marine Waters Center, The University of Michigan. 1985.	ML041380126
13	ThirdRock Consultants (TRC). 2002. "Threatened and Endangered Species Survey Final Field Report." December 2, 2002.	ML041380190
14	Thurber, N. and D. Jude. 1985. "Impingement Losses at the D.C. Cook Nuclear Power Plant During 1975-1982, With a Discussion of Factors Responsible and Possible Impact on Local Populations." <i>Special Report No. 115 of the Great Lakes Research Division</i> . Great Lakes and Marine Waters Center, The University of Michigan. 1985.	ML041380094
15	U.S. Fish and Wildlife Service (FWS) and U.S. Army Corps of Engineers (COE). 1982. "Atlas of the Spawning and Nursery Areas of of Great Lakes Fishes, Volume V-Lake Huron, Great Lakes-St. Lawrence Seaway Navigation Season Extension Program." FWS/OBS-82/52. September 1982.	ML041380070

References Collected at the CNP Site Audit
March 9 -10, 2004

	Reference Document	ADAMS Accession Number
16	American Electric Power (AEP). 2004. E-mail from Mr. Neil Haggerty, AEP to Mr. John Carlson, AEP, regarding CNP employee demographics. March 1, 2004.	ML042030274

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